

**Amendment to the Abstract:**

Please replace the Abstract with the following amended  
Abstract:

The present group of inventions relates to processing of multi-component liquid mixtures (MCLM) employing reforming process, preferably for vacuum distillation of hydrocarbon mixtures and in petroleum refining and chemical industries. The inventions include the method for processing of multi-component liquid mixtures. The method of MCLM separation includes pressure feeding of a hydrocarbon liquid mixture to an a liquid-gas jet device nozzle which discharges to a vacuum chamber of liquid-gas jet device. A counterpressure jointly with the liquid-gas jet device forms a pressure surge in the vacuum chamber. The counterpressure is 0.4 to 0.7 of the magnitude of the ~~initial~~ feed pressure generated by the pump. The plant for MCLM processing includes a feed pump, a head delivery main, a discharge main, control instrumentation and a vacuum-generating device including a vacuum chamber, a liquid-gas jet device with a nozzle in the front end wall of the vacuum chamber. The length of the nozzle exceeds its diameter by a factor 7 to 10. The plant includes a counterpressure regulator

connected through a conduit to the rear end wall of the vacuum chamber.